

CLK

FIG. 1 (PRIOR ART)

COL\_SELECT

FIG. 2 (PRIOR ART)

CAT

FIG. 3 (PRIOR ART)

INT. ADD. VALID

FIG. 4 (PRIOR ART)

$T_0$   $T_1$

CLK

FIG. 5 (PRIOR ART)

CMD

FIG. 6 (PRIOR ART)

ADDR

FIG. 7 (PRIOR ART)

DATA<sub>min</sub>

FIG. 8 (PRIOR ART)

DQS<sub>min</sub>

FIG. 9 (PRIOR ART)

DATA<sub>max</sub>

FIG. 10 (PRIOR ART)

DQS<sub>max</sub>

FIG. 11 (PRIOR ART)

$T_0$

$T_1$

$T_2$

$T_3$

$T_4$

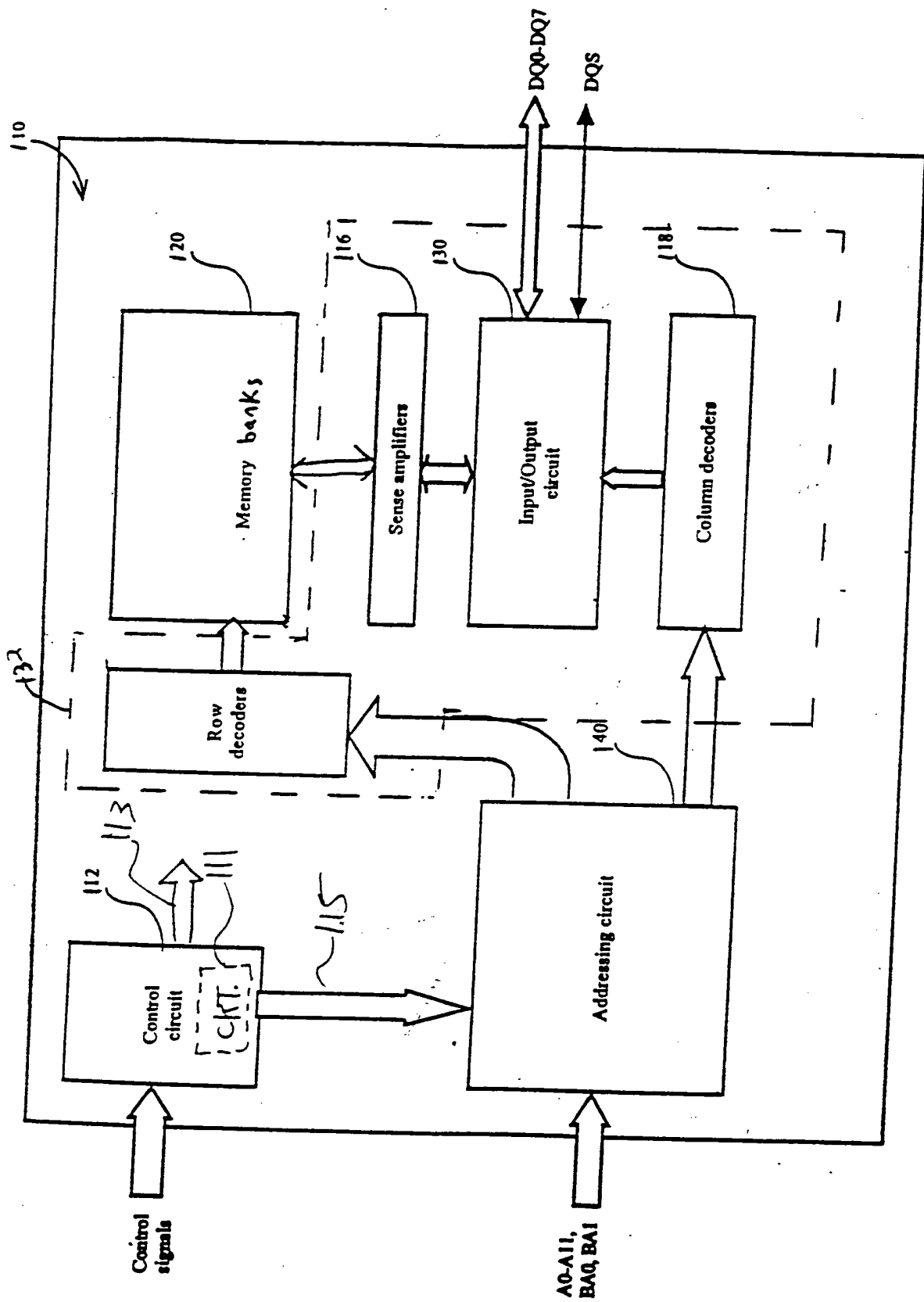
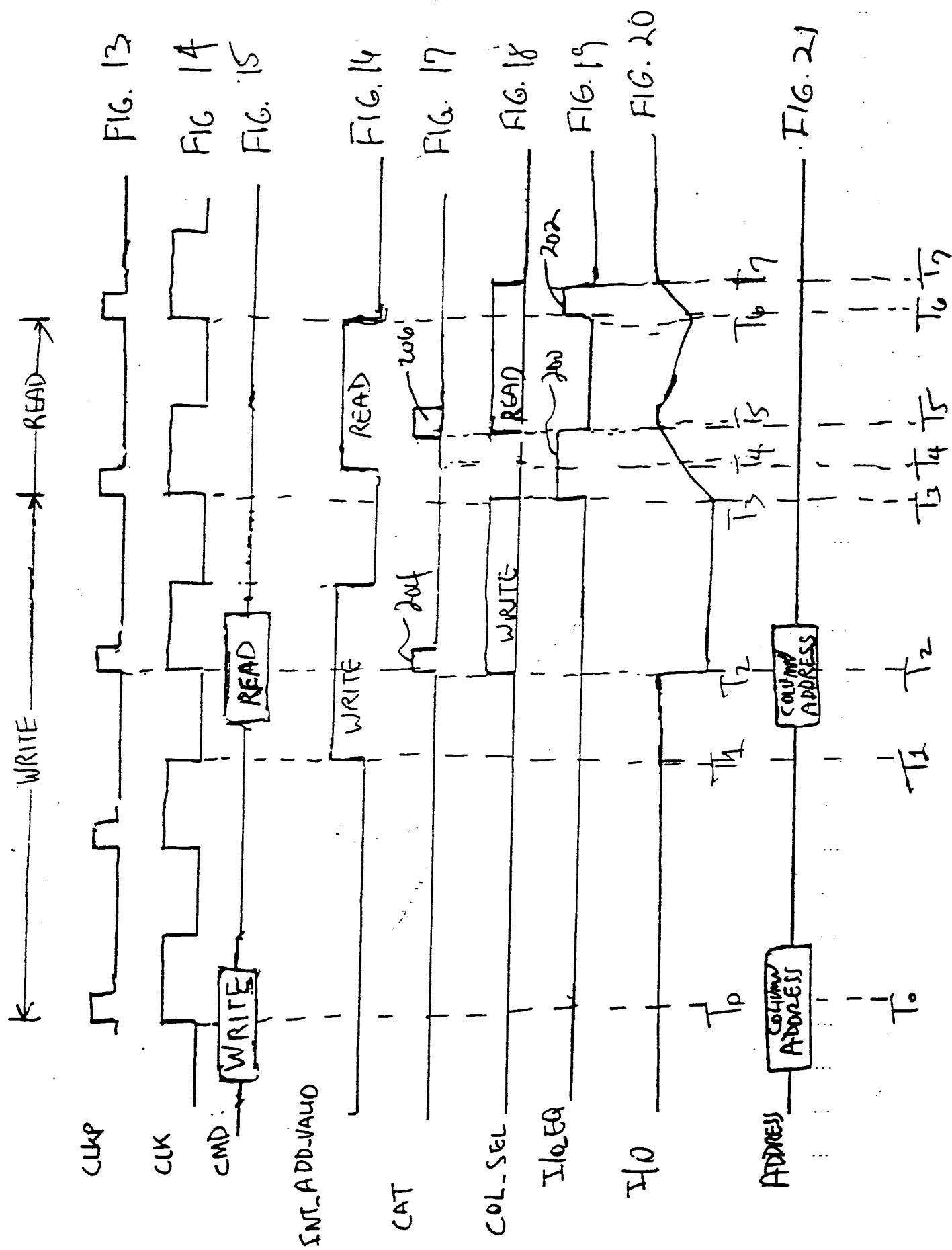


FIG. 12



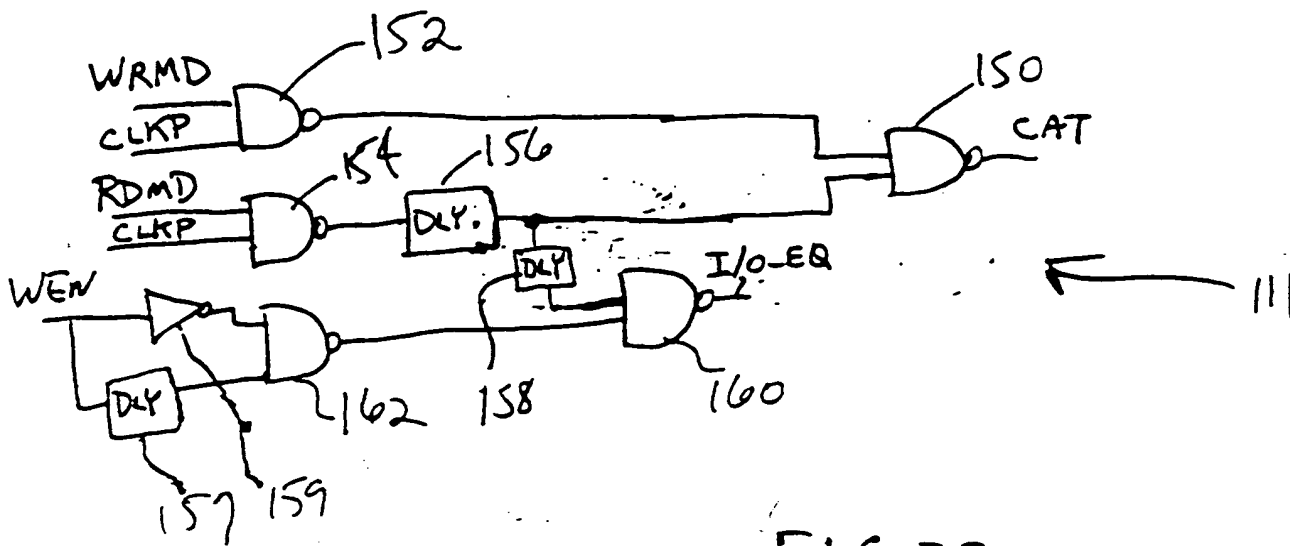


FIG. 22

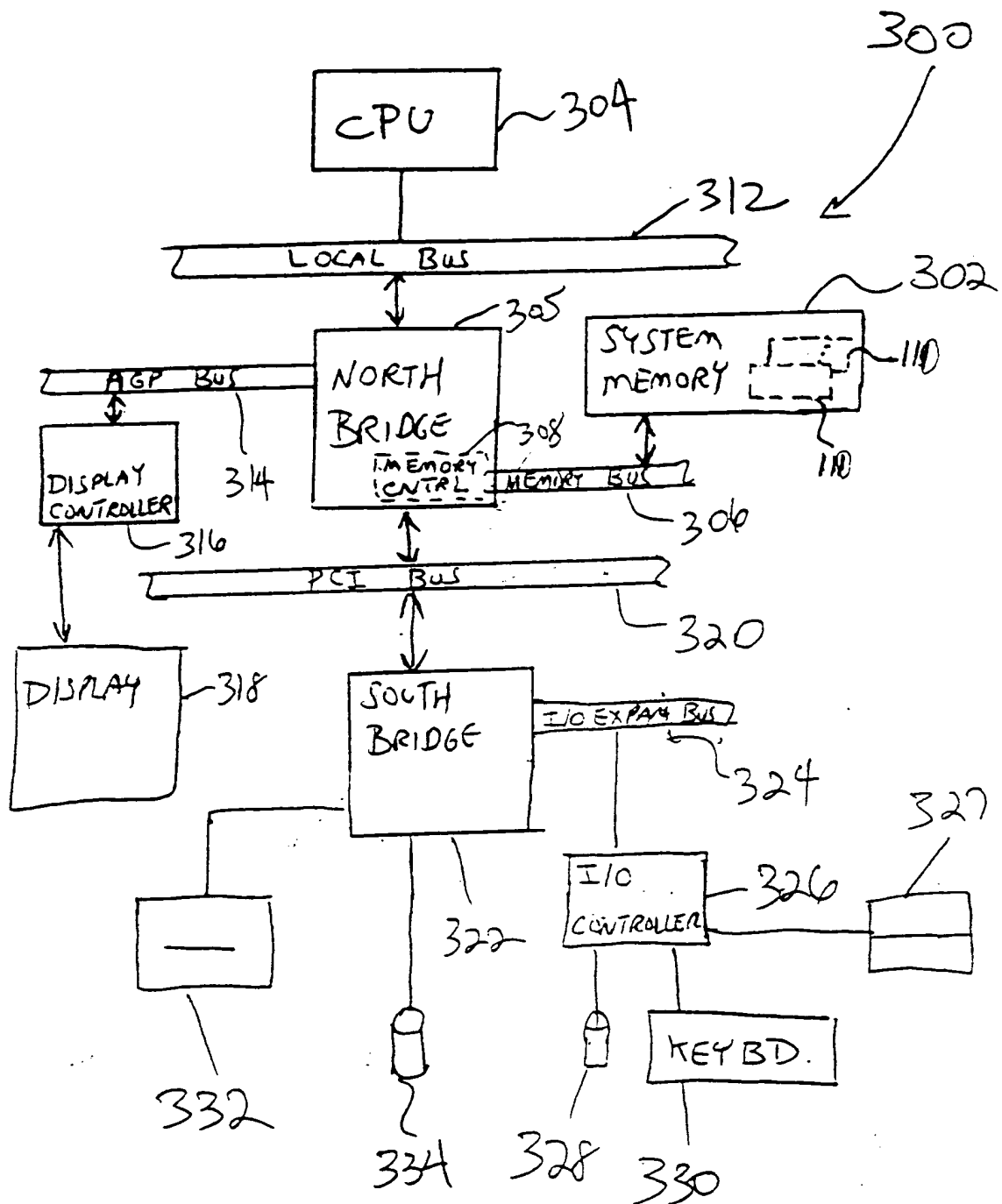


FIG. 23